## **AMENDMENTS TO THE CLAIMS**

Ti	he following	listing	of	claims	will	replace	all	prior	versions	and	listings	of	claims
in the ap	plication.												

## **LISTING OF CLAIMS**

Please cancel Claim 1.

- 2. (Currently Amended) A communication circuit of Claim 45, wherein said hybrid comprises an isolation transformer.
- 3. (Currently Amended) A communication circuit of Claim 45, wherein said hybrid comprises an active circuit.

Please cancel Claim 4.

	5.	(Currently Amended) A communication circuit of Claim 4, A
comm	unicati	on circuit comprising:
<del>111111111111111111111111111111111111</del>	a nea	r end transmitter;
<del> </del>	a hybi	rid having an input in communication with an output of said near end
<u>transn</u>	nitter;	
	a nea	r end replication transmitter;
<del></del>	a high	pass filter responsive to said near end replication transmitter;
	a subt	tractor to subtract an output from said high pass filter from the output from
said n	ear en	d transmitter and an output of said hybrid; and

a near end receiver responsive to an output of said subtractor,
wherein said near end replication transmitter is adjustable, and wherein said near
end replication transmitter comprises a current generator in communication with an
adjustable load.
6. (Currently Amended) A communication circuit of Claim 4, A
communication circuit comprising:
a near end transmitter;
a hybrid having an input in communication with an output of said near end
transmitter;
a near end replication transmitter;
a high pass filter responsive to said near end replication transmitter;
a subtractor to subtract an output from said high pass filter from the output from
said near end transmitter and an output of said hybrid; and
a near end receiver responsive to an output of said subtractor,
wherein said near end replication transmitter is adjustable, and wherein said near
end replication transmitter comprises an adjustable current generator in communication
with a load.
7. (Currently Amended) A communication circuit of Claim 1, further
comprising A communication circuit comprising:
a near end transmitter;

a hybrid having an input in communication with an output of said near end
transmitter;
a near end replication transmitter;
a high pass filter responsive to said near end replication transmitter;
a subtractor to subtract an output from said high pass filter from the output from
said near end transmitter and an output of said hybrid;
a near end receiver responsive to an output of said subtractor; and
an adjustable capacitive load in communication with said near end replication
transmitter to maximize signal delay matching between said near end transmitter and
said near end replication transmitter.
8. (Original) A communication circuit of Claim 7, further comprising an
adaptive control circuit, wherein said adjustable capacitive load is responsive to said
adaptive control circuit.
9. (Currently Amended) A communication circuit of Claim 1, A
communication circuit comprising:
a near end transmitter;
a hybrid having an input in communication with an output of said near end
transmitter;
a near end replication transmitter;
a high pass filter responsive to said near and replication transmitter:

a subtractor to subtract an output from said high pass filter from the output from
said near end transmitter and an output of said hybrid;
a near end receiver responsive to an output of said subtractor; and
wherein said high pass filter comprises an inductor having similar characteristics
as said hybrid.
10. (Original) A communication circuit of Claim 15, wherein said high pass
filter comprises a combination of a resistance and a capacitance.
11 – 16. (Cancelled).
Please cancel Claim 17.
18. (Currently Amended) A communication circuit of Claim 1721, wherein
said hybrid means comprises an isolation transformer.
19. (Currently Amended) A communication circuit of Claim 1721, wherein
said hybrid means comprises an active circuit.
Please cancel Claim 20.

21. (Currently Amended) A communication circuit of Claim 20, A
communication circuit comprising:
near end transmitting means for transmitting a transmitted signal;
hybrid means having an input in communication with an output of said near end
transmitting means for communicating the transmitted signal to and a received signal
from a channel;
near end replication transmitting means for generating a replication signal;
high pass filter means for high pass filtering the replication signal;
subtracting means for the high pass filtered replication signal from the
transmitted and received signals; and
near end receiving means for receiving an output signal from said subtracting
means,
wherein said near end replication transmitting means is adjustable, and
wherein said near end replication transmitting means comprises a current
generator means for generating a current and in communication with an adjustable load
22. (Currently Amended) A communication circuit of Claim 20, A
communication circuit comprising:
near end transmitting means for transmitting a transmitted signal;
hybrid means having an input in communication with an output of said near end
ransmitting means for communicating the transmitted signal to and a received signal
rom a channel;

near end replication transmitting means for generating a replication signal;
high pass filter means for high pass filtering the replication signal;
subtracting means for the high pass filtered replication signal from the
transmitted and received signals; and
near end receiving means for receiving an output signal from said subtracting
means,
wherein said near end replication transmitting means is adjustable, and
wherein said near end replication transmitting means comprises an adjustable
current generator means for generating a current in communication with a load.
23. (Currently Amended) A communication circuit of Claim 20, A
communication circuit comprising:
near end transmitting means for transmitting a transmitted signal;
hybrid means having an input in communication with an output of said near end
transmitting means for communicating the transmitted signal to and a received signal
from a channel;
near end replication transmitting means for generating a replication signal;
high pass filter means for high pass filtering the replication signal;
subtracting means for the high pass filtered replication signal from the
transmitted and received signals; and
near end receiving means for receiving an output signal from said subtracting
means,
wherein said near end replication transmitting means is adjustable, and

wherein said near end replication transmitting means maximizes the amplitude
matching between said near end transmitting means and said near end replication
transmitting means.
24. (Currently Amended) A communication circuit of Claim 17, further
comprising A communication circuit comprising:
near end transmitting means for transmitting a transmitted signal;
hybrid means having an input in communication with an output of said near end
transmitting means for communicating the transmitted signal to and a received signal
from a channel;
near end replication transmitting means for generating a replication signal;
high pass filter means for high pass filtering the replication signal;
subtracting means for the high pass filtered replication signal from the
transmitted and received signals;
near end receiving means for receiving an output signal from said subtracting
means; and
an adjustable capacitive load means in communication with said near end
replication transmitting means for maximizing signal delay matching between said nea
end transmitting means and said near end replication transmitting means.
25. (Original) A communication circuit of Claim 24, further comprising an
adaptive control means for controlling said adjustable capacitive load.

26. (Currently Amended) A communication circuit of Claim 17, A
communication circuit comprising:
near end transmitting means for transmitting a transmitted signal;
hybrid means having an input in communication with an output of said near end
transmitting means for communicating the transmitted signal to and a received signal
from a channel;
near end replication transmitting means for generating a replication signal;
high pass filter means for high pass filtering the replication signal;
subtracting means for the high pass filtered replication signal from the
transmitted and received signals; and
near end receiving means for receiving an output signal from said subtracting
means,
wherein said high pass filter means comprises an inductor means having similar
characteristics as said hybrid means.
27. (Currently Amended) A communication circuit of Claim 1721, wherein
said high pass filter means comprises a combination of a resistance and a capacitance
28 - 33 (Cancelled).
34 (Currently Amended) A communication circuit of Claim [[4]]5, wherein

said near end replication transmitter maximizes the amplitude matching between said

near end transmitter and said near end replication transmitter.

	Pleas	se cancei Ciaim 36.
	37.	(Currently Amended) A communication method of Claim 36, A
comm	nunicat	ion method comprising the steps of:
	(a)	transmitting a transmitted signal;
	(b)	combining the transmitted signal with a received signal from a channel;
	(c)	generating a replication signal;
	(d)	high pass filtering the replication signal;
	(e)	subtracting the high pass filtered replication signal from the transmitted
and re	eceive	d signals;
	(f)	receiving an output signal from step (e); and
	(g)	adjusting the replication signal;
		_wherein step (g) comprises the steps of adjusting a current and adjusting
a load	l.	
	38.	(Currently Amended) -A communication method of Claim 36, A
comm	unicati	on method comprising the steps of:
	(a)	transmitting a transmitted signal;
	(b)	combining the transmitted signal with a received signal from a channel;
	(c)	generating a replication signal;
	(d)	high pass filtering the replication signal;

Please cancel Claim 35.

(e)	subtracting the high pass filtered replication signal from the transmitted
and receive	d signals;
(f)	receiving an output signal from step (e); and
(g)	adjusting the replication signal;
	_wherein step (g) comprises the step of adjusting a current.
39.	(Currently Amended) A communication method of Claim 36, A
communica	tion method comprising the steps of:
(a)	transmitting a transmitted signal;
(b)	combining the transmitted signal with a received signal from a channel;
(c)	generating a replication signal;
(d)	high pass filtering the replication signal;
(e)	subtracting the high pass filtered replication signal from the transmitted
and receive	d signals;
(f)	receiving an output signal from step (e); and
(g)	adjusting the replication signal;
	_wherein step (g) comprises the steps of maximizing the amplitude
matching be	etween the replication signal and the transmitted signal.
40 –	43 (Cancelled).
Pleas	se cancel Claim 44.

45.	(Cancelled).
Ple	ase cancel Claim 46.
47.	(Cancelled).
	Please cancel Claim 48.
49.	(Cancelled).
50.	(Original) A communication circuit of Claim 5, further comprising a circuit to adjust the adjustable load against a reference load.
51.	(Currently Amended) A communication circuit of Claim 15, wherein said
	eplication transmitter comprises a voltage multiplier.
52 -	- 53 (Cancelled).
54. calibration	(Original) A communication circuit of Claim 21, further comprising a means for calibrating the adjustable load against a reference load.

55. (Currently Amended) A communication circuit of Claim <u>1721</u>, wherein said near end replication transmitting means comprises a voltage multiplier means for multiplying an output of said replication transmitting means.

56 - 57 (Cancelled).

- 58. (Currently Amended) A method of Claim 3537, wherein step (c) comprises the step of multiplying an output of the replication signal.
- 59. (Previously Presented) A method of Claim 37, further comprising the step of calibrating the load against a reference load.

60 - 84 (Cancelled).

Please cancel Claim 85.

- 86. (Currently Amended) The communication circuit of claim \$590, wherein the hybrid comprises an isolation transformer.
- 87. (Currently Amended) The communication circuit of claim \$590, wherein the hybrid comprises an active circuit.

Please cancel Claim 88.

the near end replication transmitter comprises an adjustable gain control.
90. (Currently Amended) The communication circuit of claim 88, A
communication circuit, comprising:
a near end transmitter;
a hybrid including an input in communication with an output of the near end
transmitter;
a near end replication transmitter;
a high pass filter responsive to the near end replication transmitter for high-pass
filtering a signal received from the near end replication transmitter;
a subtractor to subtract an output from the high pass filter from the output from
the near end transmitter and an output of the hybrid; and
a near end receiver responsive to an output of the subtractor,
wherein the near end replication transmitter is adjustable, and
wherein the near end replication transmitter comprises a current generator in
communication with an adjustable load.
91. (Currently Amended) The communication circuit of claim 88, A
communication circuit, comprising:
a near end transmitter;
a hybrid including an input in communication with an output of the near end
transmitter;

(Currently Amended) The communication circuit of claim 8890, wherein

89.

a near end replication transmitter;
a high pass filter responsive to the near end replication transmitter for high-pass
filtering a signal received from the near end replication transmitter;
a subtractor to subtract an output from the high pass filter from the output from
the near end transmitter and an output of the hybrid; and
a near end receiver responsive to an output of the subtractor,
wherein the near end replication transmitter is adjustable, and
wherein the near end replication transmitter comprises an adjustable current
generator in communication with a load.
92. (Currently Amended) The communication circuit of Claim 88, A
communication circuit, comprising:
a near end transmitter;
a hybrid including an input in communication with an output of the near end
transmitter;
a near end replication transmitter;
a high pass filter responsive to the near end replication transmitter for high-pass
filtering a signal received from the near end replication transmitter;
a subtractor to subtract an output from the high pass filter from the output from
the near end transmitter and an output of the hybrid; and
a near end receiver responsive to an output of the subtractor,
wherein the near end replication transmitter is adjustable, and

wherein the near end replication transmitter maximizes the amplitude matching
between the near end transmitter and the near end replication transmitter.
93. (Currently Amended) The communication circuit of claim 85, further
comprising: A communication circuit, comprising:
a near end transmitter;
a hybrid including an input in communication with an output of the near end
transmitter;
a near end replication transmitter;
a high pass filter responsive to the near end replication transmitter for high-pass
filtering a signal received from the near end replication transmitter;
a subtractor to subtract an output from the high pass filter from the output from
the near end transmitter and an output of the hybrid;
a near end receiver responsive to an output of the subtractor; and
an adjustable capacitive load in communication with the near end replication
transmitter to maximize signal delay matching between the near end transmitter and the
near end replication transmitter.
94. (Previously Presented) The communication circuit of claim 93, further
comprising:
an adaptive control circuit,
wherein the adjustable capacitive load is responsive to the adaptive control
circuit.

95. (Currently Amended) The communication circuit of claim 85, A
communication circuit, comprising:
a near end transmitter;
a hybrid including an input in communication with an output of the near end
transmitter;
a near end replication transmitter;
a high pass filter responsive to the near end replication transmitter for high-pass
filtering a signal received from the near end replication transmitter;
a subtractor to subtract an output from the high pass filter from the output from
the near end transmitter and an output of the hybrid; and
a near end receiver responsive to an output of the subtractor,
wherein the high pass filter comprises an inductor including characteristics
similar to the hybrid.
96. (Currently Amended) The communication circuit of claim 85, A
communication circuit, comprising:
a near end transmitter;
a hybrid including an input in communication with an output of the near end
transmitter;
a near end replication transmitter;
a high pass filter responsive to the near end replication transmitter for high-pass
filtering a signal received from the near end replication transmitter:

a subtractor to subtract an output from the high pass filter from the output from
the near end transmitter and an output of the hybrid; and
a near end receiver responsive to an output of the subtractor,
wherein the high pass filter comprises a combination of a resistance and a
capacitance.